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# THE MATERIALS TO FIT YOUR NEEDS

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# MATERIAL SELECTION GUIDE

Base Elastomer	Isoprene	SBR	EPDM	Neoprene	NBR	Viton	Silicone
<b>Standard Durometer</b>	50	60	60	60	50	60	50
<b>Custom Durometer</b>	40, 60, 70, 80	40, 50, 70, 80	40, 50, 70, 80	40, 50, 70, 80	40, 60, 70, 80	40, 50, 70, 80	40, 60, 70, 80
<b>SAE J200 ASTM D2000 Classification</b>	AA	AA   BB	AA   BA   CA   DA	BC   BE	BF   BK   BG	HK	FC   GE   FE
<b>Maximum Tensile Strength</b>	3,500 PSI	2,500 PSI	2,500 PSI	3,000 PSI	3,000 PSI	2,000 PSI	1,000 PSI
<b>Resiliency</b>	High	Medium	Medium	High	Low	Low	Medium
<b>Impact Strength</b>	Excellent	Excellent	Good	Excellent	Good	Good	Fair
<b>Abrasion Resistance</b>	Excellent	Excellent	Good	Excellent	Excellent	Good	Poor
<b>Tear Resistance</b>	Excellent	Fair	Fair	Good	Good	Good	Fair
<b>Max. Service Temp.</b>	180°F	180°F	300°F	225°F	250°F	500°F	550°F
<b>Min. Service Temp.</b>	-60°F	-60°F	-70°F	-40°F	-60°F	-25°F	-178°F
<b>Oil Resistance</b>	Poor	Poor	Poor	Excellent	Excellent	Excellent	Good
<b>Fuel Resistance</b>	Poor	Poor	Fair	Good	Excellent	Excellent	Poor
<b>Weather Aging</b>	Fair	Fair	Excellent	Good	Good	Excellent	Excellent
<b>Oxidation</b>	Fair	Fair	Excellent	Excellent	Fair/Good	Excellent	Excellent
<b>Heat Aging</b>	Good	Good	Excellent	Excellent	Good	Excellent	Excellent
<b>Water Swell Resistance</b>	Fair	Excellent	Excellent	Good	Excellent	Excellent	Excellent
<b>Flame Resistance</b>	Poor	Poor	Poor	Excellent	Poor	Excellent	Excellent
<b>Metal Adherence</b>	Excellent	Excellent	Good	Excellent	Good	Good	Excellent
<b>Electrical Resistance</b>	Excellent	Excellent	Excellent	Fair	Fair/Good	Good	Excellent
<b>Typical Applications</b>	Tires and tubes, gaskets, belts, hoses, seals, hock mounts.	Tires and tubes, gaskets, belts, hoses, seals, hock mounts.	Auto parts, electrical insulation, dust covers, weather stripping, and conveyor belts.	Petroleum and chemical tank linings, automotive gaskets and seals, molded parts, footwear & weather stripping.	Gasoline and oil resistant hoses, gaskets and seals, rollers, o-rings, shock and vibration mounts.	O-rings, shaft seals, valve parts, packings, diaphragms, gaskets and pump parts.	Parts subjected to extremely high or low temperatures, seals gaskets, o-rings and bellows.
<b>Approximate Shelf Life</b>	3 - 5 Years	3 - 5 Years	5 - 15 Years	5 - 15 Years	5 - 15 Years	20 Years	20 Years